

Title (en)
MULTI-CHANNEL DOHERTY AMPLIFIER, MULTI-ANTENNA TRANSMITTER, AND METHOD FOR TURNING ON THE MULTI-CHANNEL DOHERTY AMPLIFIER

Title (de)
MEHRKANALIGER DOHERTY-VERSTÄRKER, MEHRANTENNENSENDER UND VERFAHREN ZUM EINSCHALTEN DES MEHRKANALIGEN DOHERTY-VERSTÄRKERS

Title (fr)
AMPLIFICATEUR DE DOHERTY MULTICANAL, ÉMETTEUR MULTI-ANTENNE ET PROCÉDÉ DE MISE EN MARCHÉ DE L'AMPLIFICATEUR DE DOHERTY MULTICANAL

Publication
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Application
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Priority
CN 2017082139 W 20170427

Abstract (en)
[origin: WO2018195843A1] Embodiments of the disclosure generally relate to a multi-channel Doherty power amplifier, a multi-antenna transmitter, and a method for turning on the multi-channel Doherty amplifier. The multi-channel Doherty power amplifier includes: multiple input ports and the same number of output ports corresponding to multiple channels, the multiple channels having the same characteristics for radio signal amplification and transmission; multiple private peaking amplifiers corresponding to the multiple channels; and a common Doherty core shared by the multiple private peaking amplifiers. The multiple private peaking amplifiers and the common Doherty core are configured to amplify identical multi-channel signal for multiple inputs and multiple outputs, thus higher saving ratio and better channel performance (output power, linearity, efficiency, power gain etc.) consistency would be greatly improved.

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